

# Succinic acid, hept-2-yl 1-cyclopentylethyl ester

Inchi:	InChI=1S/C18H32O4/c1-4-5-6-9-14(2)21-17(19)12-13-18(20)22-15(3)16-10-7-8-11-16/h1
InchiKey:	JAFGWHZDHDQGLDS-UHFFFAOYSA-N
Formula:	C18H32O4
SMILES:	CCCCC(C)OC(=O)CCC(=O)OC(C)C1CCCC1
Mol. weight [g/mol]:	312.44

## Physical Properties

Property code	Value	Unit	Source
gf	-335.49	kJ/mol	Joback Method
hf	-854.53	kJ/mol	Joback Method
hfus	34.84	kJ/mol	Joback Method
hvap	73.45	kJ/mol	Joback Method
log10ws	-4.96		Crippen Method
logp	4.401		Crippen Method
mvol	268.500	ml/mol	McGowan Method
pc	1415.44	kPa	Joback Method
rinpol	2105.00		NIST Webbook
rinpol	2105.00		NIST Webbook
tb	778.22	K	Joback Method
tc	973.59	K	Joback Method
tf	417.84	K	Joback Method
vc	1.020	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	842.98	J/molxK	778.22	Joback Method
cpg	861.60	J/molxK	810.78	Joback Method
cpg	879.06	J/molxK	843.34	Joback Method
cpg	895.36	J/molxK	875.91	Joback Method
cpg	910.54	J/molxK	908.47	Joback Method
cpg	924.61	J/molxK	941.03	Joback Method
cpg	937.61	J/molxK	973.59	Joback Method
dvisc	0.0018040	Paxs	417.84	Joback Method

dvisc	0.0007940	Paxs	477.90	Joback Method
dvisc	0.0004198	Paxs	537.97	Joback Method
dvisc	0.0002522	Paxs	598.03	Joback Method
dvisc	0.0001663	Paxs	658.09	Joback Method
dvisc	0.0001176	Paxs	718.16	Joback Method
dvisc	0.0000877	Paxs	778.22	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U391412&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391412&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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